

CHALLENGE A ANATOMY PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which gland is part of the endocrine system and secretes hormones that regulate other glands?**
 - A. Adrenal gland
 - B. Hypothalamus
 - C. Pancreas
 - D. Pituitary gland
- 2. Which term refers to the black hole in the center of the iris that controls the amount of light entering the eye?**
 - A. Pupil
 - B. Retina
 - C. Sclera
 - D. Vitreous humor
- 3. The third stirrup-shaped bone in the ear that transmits vibrations and connects the incus to the oval window is the?**
 - A. Stapes
 - B. Incus
 - C. Malleus
 - D. Pinna
- 4. Which bone is the exterior bone of the forearm, descending from the elbow to the wrist?**
 - A. Ulna
 - B. Humerus
 - C. Radius
 - D. Scapula
- 5. The part of the eye that connects the iris to the choroid coat is the**
 - A. Cornea
 - B. Iris
 - C. Ciliary body
 - D. Lens

- 6. Tiny sacs of lung tissue specialized for the movement of gases between air and blood.**
- A. Alveoli
 - B. Bronchi
 - C. Bronchioles
 - D. Larynx
- 7. Brain region controlling the pituitary gland.**
- A. Thalamus
 - B. Pineal gland
 - C. Hypothalamus
 - D. Amygdala
- 8. What is the large tube connecting the larynx to the bronchial tubes that moves air to and from the lungs?**
- A. Trachea
 - B. Esophagus
 - C. Bronchus
 - D. Alveolus
- 9. What divides the right and left chambers of the heart?**
- A. Interatrial Septum
 - B. Interventricular Septum
 - C. Endocardium
 - D. Septum
- 10. Which neural structure carries impulses away from the neuron cell body toward other neurons or muscles?**
- A. Dendrite
 - B. Soma
 - C. Axon
 - D. Nucleus

Answers

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1. D
2. A
3. A
4. C
5. C
6. A
7. C
8. A
9. D
10. C

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Explanations

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1. Which gland is part of the endocrine system and secretes hormones that regulate other glands?

- A. Adrenal gland
- B. Hypothalamus
- C. Pancreas
- D. Pituitary gland**

The pituitary gland is the master regulator of the endocrine system, releasing hormones that control other endocrine glands. Its anterior lobe makes hormones like thyroid-stimulating hormone to drive the thyroid, adrenocorticotropic hormone to stimulate the adrenal cortex, and FSH and LH to regulate the gonads, along with prolactin for milk production. The posterior pituitary releases hormones (such as ADH and oxytocin) produced in the hypothalamus, helping coordinate broader bodily responses. This direct role in signaling other glands to release their hormones is what makes the pituitary the best answer. While the hypothalamus influences the pituitary and other glands produce important hormones, the pituitary's actions specifically center on regulating other endocrine glands.

2. Which term refers to the black hole in the center of the iris that controls the amount of light entering the eye?

- A. Pupil**
- B. Retina
- C. Sclera
- D. Vitreous humor

The opening in the center of the iris that controls how much light enters the eye is called the pupil. It acts as the entryway for light, and its size is adjusted by the iris muscles: in bright light the pupil constricts to reduce light entry, and in dim light it dilates to let in more light. The dark appearance comes from the fact that light that passes through is not reflected back, so the opening looks black. The other structures have different roles: the retina is the light-sensitive tissue at the back of the eye; the sclera is the tough white outer coating; and the vitreous humor is the clear gel filling the main chamber.

3. The third stirrup-shaped bone in the ear that transmits vibrations and connects the incus to the oval window is the?

- A. Stapes**
- B. Incus
- C. Malleus
- D. Pinna

Sound transmission through the middle ear relies on a chain of three tiny bones designed to move vibrations efficiently from the eardrum into the inner ear. The last bone in that chain is the stirrup-shaped one, whose footplate fits into the oval window of the cochlea. When the eardrum vibrates, the hammer (the first bone) moves, passing the motion to the anvil, and then to this final bone. The stapes pushes on the oval window, generating waves in the inner-ear fluid that kick off the hearing process. The outer ear structure called the pinna isn't a middle-ear bone and doesn't transmit these vibrations, while the hammer and anvil are earlier links in the chain.

4. Which bone is the exterior bone of the forearm, descending from the elbow to the wrist?

- A. Ulna
- B. Humerus
- C. Radius**
- D. Scapula

The outside bone of the forearm that runs from the elbow to the wrist is the radius. In the anatomical position, it sits on the thumb side (lateral) of the forearm, making it the exterior bone as you travel from the elbow toward the wrist. The radius extends from the distal end of the humerus at the elbow down to the carpal bones of the wrist, and it plays a key role in forearm rotation because it crosses over the ulna when you turn the palm up or down. The other long bone in the forearm is the ulna, which is on the pinky side (medial) and not the exterior bone in this sense. The humerus is the upper arm bone, and the scapula is the shoulder blade.

5. The part of the eye that connects the iris to the choroid coat is the

- A. Cornea
- B. Iris
- C. Ciliary body**
- D. Lens

The ciliary body. It forms a ring between the iris in front and the choroid behind, effectively linking those two structures. The ciliary body is part of the uveal tract and sits at the boundary between the anterior and posterior eye segments. It contains the ciliary muscle, which adjusts the lens for focusing, and the ciliary processes that produce aqueous humor. The other options are not connective structures between iris and choroid: the cornea is the clear front window, the iris is the colored part in front of the lens, and the lens sits behind the pupil, with the choroid located further back.

6. Tiny sacs of lung tissue specialized for the movement of gases between air and blood.

- A. Alveoli**
- B. Bronchi
- C. Bronchioles
- D. Larynx

Gas exchange happens where the air meets the blood, and that occurs in tiny sacs called alveoli. These are at the ends of the airways and are surrounded by a dense network of capillaries. The barrier between air and blood is extremely thin—made up of the alveolar epithelium, the capillary endothelium, and their fused basement membranes—so gases can diffuse quickly. The huge collective surface area of countless alveoli makes diffusion efficient, letting oxygen move from the air into the blood and carbon dioxide move from the blood into the air to be exhaled. Surfactant inside the alveoli lowers surface tension to keep them from collapsing and helps them stay open for gas exchange. In the bigger picture, the other structures are airways or the voice box and don't provide this specialized thin barrier and vast surface area for gas exchange, which is why alveoli are the correct focus.

7. Brain region controlling the pituitary gland.

- A. Thalamus
- B. Pineal gland
- C. Hypothalamus
- D. Amygdala

The hypothalamus functions as the command center that links neural activity to hormonal output, essentially governing the pituitary. It produces releasing and inhibiting hormones that travel through the hypothalamic–pituitary portal system to the anterior pituitary, telling it when to release hormones like growth hormone, ACTH, TSH, and others. It also makes neurohormones that are transported down the infundibulum to the posterior pituitary, where they are released into the bloodstream as ADH and oxytocin. This direct, dual pathway to both parts of the pituitary is what makes the hypothalamus the region that controls pituitary function. The thalamus serves mainly as a sensory relay, the pineal gland regulates melatonin and circadian rhythms, and the amygdala handles emotion and memory—none of these directly regulate the pituitary.

8. What is the large tube connecting the larynx to the bronchial tubes that moves air to and from the lungs?

- A. Trachea
- B. Esophagus
- C. Bronchus
- D. Alveolus

This question is about the airway that conducts air from the larynx down into the lungs. The large tube that fits this description is the trachea, or windpipe. It runs from the larynx and divides into the main bronchi that lead to each lung, keeping air moving in and out. Its walls have cartilage rings that keep it open during breathing, and its inner lining is a ciliated epithelium with goblet cells that help trap and clear mucus and particles. The esophagus, by contrast, is the posterior tube that carries food to the stomach; the bronchus is a branch that splits from the trachea to each lung, not the main passage; and the alveolus is a tiny air sac where gas exchange occurs, not a tube.

9. What divides the right and left chambers of the heart?

- A. Interatrial Septum
- B. Interventricular Septum
- C. Endocardium
- D. Septum

The idea here is that walls called septa separate the left and right sides of the heart. There are two such walls: the one between the atria (interatrial septum) and the one between the ventricles (interventricular septum). The general term that encompasses these dividing walls is simply septum, which is why that option best fits the question's wording about what divides the right and left chambers overall. The other named septa refer to specific pairs of chambers (atria or ventricles) and aren't as broad in scope, while the endocardium is just the inner lining of the heart, not a dividing wall.

10. Which neural structure carries impulses away from the neuron cell body toward other neurons or muscles?

- A. Dendrite
- B. Soma
- C. Axon
- D. Nucleus

The main idea here is how a neuron sends signals. After inputs are gathered mainly by dendrites and integrated in the cell body, the electrical impulse is carried away from the cell body along the axon. The axon is the long projection that conducts action potentials down its length toward the end terminals, where communication occurs with other neurons or with muscles at synapses. Myelin around the axon speeds this transmission, and at the terminal endings the signal is transmitted across the synapse to the next cell. In contrast, dendrites are the receiving branches, the soma (cell body) contains the nucleus and metabolic machinery, and the nucleus sits inside the cell body rather than extending to transmit signals.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://challengeaanatomy.examzify.com>

We wish you the very best on your exam journey. You've got this!

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